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# MEAN WELL

## SWITCHING POWER SUPPLY

**ISO-9001 CERTIFIED MANUFACTURER**

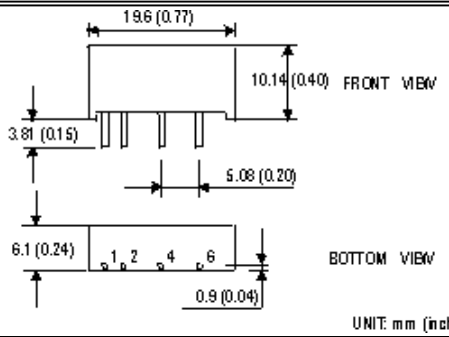
## SPR01L SERIES

**Jameco Part Number 213250**

- .REGULATED DC OUTPUT
- .1000VDC I/O ISOLATION
- .INPUT FILTER:CAPACITOR TYPE
- .INTERNAL SMD TECHNOLOGY
- .NO EXTERNAL COMPONENTS REQUIRED
- .HIGH RELIABILITY / LOW COST
- .100% BURN-IN TEST
- .MTBF:800,000 HOURS

| MODEL / SPECIFICATION | SPR01L-05 | SPR01L-09 | SPR01L-12 | SPR01L-15 |
|---|---|---|---|---|
| DC OUTPUT VOLTAGE | 5V | 9V | 12V | 15V |
| OUTPUT VOLTAGE ACCURACY | ±2% | | | |
| OUTPUT RATED CURRENT | 200mA | 100mA | 84mA | 67mA |
| OUTPUT CURRENT RANGE | 0-200mA | 0-100mA | 0-84mA | 0-67mA |
| RIPPLE & NOISE | 100mVp-p (max.) | | | |
| LINE REGULATION | ± 1% | ± 1% | ± 1% | ± 1% |
| LOAD REGULATION | ± 1% | ± 1% | ± 1% | ± 1% |
| DC OUTPUT POWER | 1W | 0.9W | 1W | 1W |
| EFFICIENCY | 57% | 58% | 61% | 62% |
| SWITCHING FREQUENCY | 100KHz min. | | | |
| INPUT VOLTAGE RANGE | 5V± 10% (4.5~5.5VDC) | | | |
| INPUT CURRENT | 350mA max. | | | |
| SHORT CIRCUIT PROTECTION | MOMENTARY | | | |
| OVER VOLTAGE PROTECTION | ---------- | | | |
| TEMP. COEFFICIENT | ±0.03% / °C (0~50°C) | | | |
| ISOLATION VOLTAGE | I/P-O/P:1KVDC MIN. | | | |
| ISOLATION RESISTANCE | I/P-O/P:500VDC / 100M Ohms MIN. | | | |
| ISOLATION CAPACITANCE | 80pF max. | | | |
| WORKING TEMP., HUMIDITY | -15°C~+60°C, 20%~90% RH (NO DERATING); 80% LOAD @ 71°C | | | |
| STORAGE TEMP., HUMIDITY | -25°C~+85°C, 10%~95% RH | | | |
| DIMENSION | 0.77"*0.4"*0.24" | | | |
| WEIGHT | 2.1g | | | |
| CASE METERIAL | NON-CONDUCTIVE PLASTIC | | | |

MECHANISM AND PIN CONFIGURATION




| Pin no. | Output |
|---|---|
| 1 | +Vin |
| 2 | -Vin |
| 4 | -Vout |
| 6 | +Vout |

NOTE :
1. ALL PARAMETERS ARE SPECIFIED AT RATED INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
2. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
3. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
4. LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD.

1999-09-20

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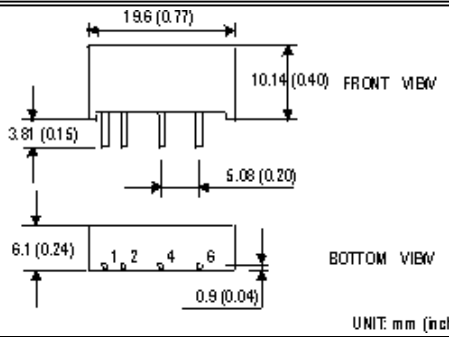
# SPR01M SERIES

.REGULATED DC OUTPUT
.1000VDC I/O ISOLATION
.INPUT FILTER:CAPACITOR TYPE
.INTERNAL SMD TECHNOLOGY
.NO EXTERNAL COMPONENTS REQUIRED
.HIGH RELIABILITY / LOW COST
.100% BURN-IN TEST
.MTBF:800,000 HOURS

| MODEL / SPECIFICATION | SPR01M-05 | SPR01M-09 | SPR01M-12 | SPR01M-15 |
|---|---|---|---|---|
| DC OUTPUT VOLTAGE | 5V | 9V | 12V | 15V |
| OUTPUT VOLTAGE ACCURACY | ±2% | | | |
| OUTPUT RATED CURRENT | 200mA | 100mA | 84mA | 67mA |
| OUTPUT CURRENT RANGE | 0-200mA | 0-100mA | 0-84mA | 0-67mA |
| RIPPLE & NOISE | 100mVp-p (max.) | | | |
| LINE REGULATION | ± 1% | ± 1% | ± 1% | ± 1% |
| LOAD REGULATION | ± 1% | ± 1% | ± 1% | ± 1% |
| DC OUTPUT POWER | 1W | 0.9W | 1W | 1W |
| EFFICIENCY | 59% | 60% | 62% | 63% |
| SWITCHING FREQUENCY | 100KHz min. | | | |
| INPUT VOLTAGE RANGE | 12V± 10% (10.8~13.2VDC) | | | |
| INPUT CURRENT | 141mA max. | | | |
| SHORT CIRCUIT PROTECTION | MOMENTARY | | | |
| OVER VOLTAGE PROTECTION | ---------- | | | |
| TEMP. COEFFICIENT | ±0.03% / °C (0~50°C) | | | |
| ISOLATION VOLTAGE | I/P-O/P:1KVDC MIN. | | | |
| ISOLATION RESISTANCE | I/P-O/P:500VDC / 100M Ohms MIN. | | | |
| ISOLATION CAPACITANCE | 80pF max. | | | |
| WORKING TEMP., HUMIDITY | -15°C~+60°C, 20%~90% RH (NO DERATING); 80% LOAD @ 71°C | | | |
| STORAGE TEMP., HUMIDITY | -25°C~+85°C, 10%~95% RH | | | |
| DIMENSION | 0.77"*0.4"*0.24" | | | |
| WEIGHT | 2.1g | | | |
| CASE METERIAL | NON-CONDUCTIVE PLASTIC | | | |

MECHANISM AND PIN CONFIGURATION




| Pin no. | Output |
|---|---|
| 1 | +Vin |
| 2 | -Vin |
| 4 | -Vout |
| 6 | +Vout |

NOTE :
1.ALL PARAMETERS ARE SPECIFIED AT RATED INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
2.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
3.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
4.LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD.

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# SPR01N SERIES

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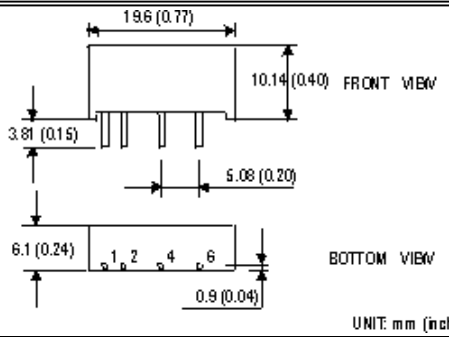
.1000VDC I/O ISOLATION
.INPUT FILTER:CAPACITOR TYPE
.INTERNAL SMD TECHNOLOGY
.NO EXTERNAL COMPONENTS REQUIRED
.HIGH RELIABILITY / LOW COST
.100% BURN-IN TEST
.MTBF:800,000 HOURS

| MODEL / SPECIFICATION | SPR01N-05 | SPR01N-09 | SPR01N-12 | SPR01N-15 |
|---|---|---|---|---|
| DC OUTPUT VOLTAGE | 5V | 9V | 12V | 15V |
| OUTPUT VOLTAGE ACCURACY | ±2% | | | |
| OUTPUT RATED CURRENT | 200mA | 100mA | 84mA | 67mA |
| OUTPUT CURRENT RANGE | 0-200mA | 0-100mA | 0-84mA | 0-67mA |
| RIPPLE & NOISE | 100mVp-p (max.) | | | |
| LINE REGULATION | ± 1% | ± 1% | ± 1% | ± 1% |
| LOAD REGULATION | ± 1% | ± 1% | ± 1% | ± 1% |
| DC OUTPUT POWER | 1W | 0.9W | 1W | 1W |
| EFFICIENCY | 62% | 60% | 63% | 63% |
| SWITCHING FREQUENCY | 100KHz min. | | | |
| INPUT VOLTAGE RANGE | 24V± 10% (21.6~26.4VDC) | | | |
| INPUT CURRENT | 67mA max. | | | |
| SHORT CIRCUIT PROTECTION | MOMENTARY | | | |
| OVER VOLTAGE PROTECTION | ---------- | | | |
| TEMP. COEFFICIENT | ±0.03% / °C (0~50°C) | | | |
| ISOLATION VOLTAGE | I/P-O/P:1KVDC MIN. | | | |
| ISOLATION RESISTANCE | I/P-O/P:500VDC / 100M Ohms MIN. | | | |
| ISOLATION CAPACITANCE | 80pF max. | | | |
| WORKING TEMP., HUMIDITY | -15°C~+60°C, 20%~90% RH (NO DERATING); 80% LOAD @ 71°C | | | |
| STORAGE TEMP., HUMIDITY | -25°C~+85°C, 10%~95% RH | | | |
| DIMENSION | 0.77"*0.4"*0.28" | | | |
| WEIGHT | 2.1g | | | |
| CASE METERIAL | NON-CONDUCTIVE PLASTIC | | | |

MECHANISM AND PIN CONFIGURATION




| Pin no. | Output |
|---|---|
| 1 | +Vin |
| 2 | -Vin |
| 4 | -Vout |
| 6 | +Vout |

NOTE :
1.ALL PARAMETERS ARE SPECIFIED AT RATED INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
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| MODEL / SPECIFICATION | SPR01O-05 | SPR01O-09 | SPR01O-12 | SPR01O-15 |
|---|---|---|---|---|
| DC OUTPUT VOLTAGE | 5V | 9V | 12V | 15V |
| OUTPUT VOLTAGE ACCURACY | ±2% | | | |
| OUTPUT RATED CURRENT | 200mA | 100mA | 84mA | 67mA |
| OUTPUT CURRENT RANGE | 0-200mA | 0-100mA | 0-84mA | 0-67mA |
| RIPPLE & NOISE | 100mVp-p (max.) | | | |
| LINE REGULATION | ± 1% | ± 1% | ± 1% | ± 1% |
| LOAD REGULATION | ± 1% | ± 1% | ± 1% | ± 1% |
| DC OUTPUT POWER | 1W | 0.9W | 1W | 1W |
| EFFICIENCY | 62% | 60% | 63% | 63% |
| SWITCHING FREQUENCY | 100KHz min. | | | |
| INPUT VOLTAGE RANGE | 48V± 10% (43.2~52.8VDC) | | | |
| INPUT CURRENT | 35mA max. | | | |
| SHORT CIRCUIT PROTECTION | MOMENTARY | | | |
| OVER VOLTAGE PROTECTION | ---------- | | | |
| TEMP. COEFFICIENT | ±0.03% / °C (0~50°C) | | | |
| ISOLATION VOLTAGE | I/P-O/P:1KVDC MIN. | | | |
| ISOLATION RESISTANCE | I/P-O/P:500VDC / 100M Ohms MIN. | | | |
| ISOLATION CAPACITANCE | 80pF max. | | | |
| WORKING TEMP., HUMIDITY | -15°C~+60°C, 20%~90% RH (NO DERATING); 80% LOAD @ 71°C | | | |
| STORAGE TEMP., HUMIDITY | -25°C~+85°C, 10%~95% RH | | | |
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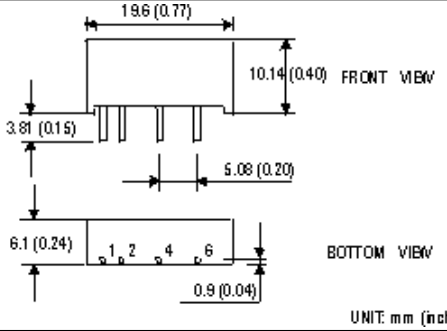


| Pin no. | Output |
|---|---|
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| 6 | +Vout |

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